# **Automating Children's Emergency** (CE) Home Recovery Programme (HRP) Assessment and Reports



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### INTRODUCTION

As the number of Covid-19 patients increases, Office of Patient Experience (OPE) team took over HRP assessment for MOH reporting to enable CE doctors to better focus on patients' care. OPE team was overwhelmed when the cases increased and fatigue set in while supporting the HRP assessment and report.

### **Problem:**

1. Time consuming : Required up to 6 man hours (including public holidays and weekends) daily!

- 2. Manual process in collating and processing daily MOH Reporting of HRP cases
  - Call caregivers for HRP assessment
  - Process into required format as per MOH requirements

### **METHODOLOGY**

#### Two Phased Data processing approach was adopted: Phase 1 : Digitalization of patient contact and responses for HRP assessment **Before** After

a) Contact of patient' caregiver for patient details obtained via individual extraction from SCM

a) Retrieval of patient contact details via Ehints report setup eliminated the manual process including efficiently obtaining the patient responses for timely intervention

## **Phase 2 Process "redesigned"**

#### **Collating and processing daily MOH Reporting of HRP cases**

Before	After
Approx 20 minutes via Excel A) Step 1: Sort by age in ascending order	<u>Approx 2 minutes</u> via Macro
To obtain list of patients 12 months and above Step1: Filter by Age (column K) and only select responses	

#### b) Conduct HRP assessment via individual phone call

b) Set up FORMSG (based on MOH's set criteria) for patient to respond after sending SMS via Bizlive

#### Phase 2 : Collaboration with DAO on Process redesign of data preparation and automation of MOH report. Before After

a) Manual assess patient's eligibility for HRP via phone call

b) Manual assess if patient requires Virtual consultation

c) Manually complete MOH report to submit patients' details based on (1. Eligible for HRP 2. Not Eligible 3. Uncontactable)

a) Download responses from FORMSG without contacting patient

b) Algorithm using Excel macro to automatic assess and group patients eligibility status

c) Automate to produce final MOH required format for immediate dissemination

"1" and above

Step 2: Filter by Download status (column M) to "Success" Step 3: Filter by "Would you like a VC?" (column P) to "Yes".

\* The remaining patients are patients above 12 months and require VC.

Email patient name and IC to CE admissions for arrangements of VC.

DELETE ALL THE RECORDS OF PATIENTS ABOVE 12 MONTHS AND REQUIRE VC FROM THIS LIST

B) The remaining patients are those below 12 months and

Step 1: Go to HRP (column Q) and apply formula below for all records below 12 months Step 2: Update MOH template accordingly with the respective HRP eligibility generated.

\*Formula to enter under column Q =IF(AND(M2="Success",N2="",O2=""),"Eligible for HRP",IF(AND(M2="",N2="",O2=""),"Did not respond to FormSG"))

#### Open up Macro workblook

- Input Call list
- Input FormSG
- response
- Run macro

1. Eliminated the need to call up to	<ol> <li>Manpower required reduced from 4 to 5</li> </ol>	<ol> <li>Fast retrieval of patient contact information was</li> </ol>	process and reporting	5. Scalability to other
about <b>80 patients</b> a day.	staff per day to 1 staff per day	done via E-hints report which also <b>eliminated</b>	submission cut down from 6 hours to just 30	support teams to reduce
		scribing errors.	minutes per day	fatigue

#### CONCLUSION

RESULTS

OPE's collaboration with DAO involved taking a systematic approach to review and redesign the process of data processing. Use of automated process also enabled task to be standardised and executable by any staff. This allowed a setup of rotation amongst the data representatives to prevent staff fatigue and ensure sustainable reporting.